# Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

### Sacramento River Basin

ST0010	Overall LMA	Total LMA						
Sutter Maintenance Yard Wadsworth	Rating	Miles						
Canal	A	9.32						
Data diltara		Maintena	nce Deficiancy		Enforc	ement	Design 8 Obsole	& System scence
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	
Earthen Levee								
Animal Control	0.02		0.02	0.22%				
Slope Stability	0.01		0.01	0.11%				
Erosion / Bank Caving	0.51		0.51	5.47%				
Supplemental								
USACE Erosion Survey	0.05		0.05	0.54%				
DWR UCIP Field Study					0.18	0.04		
LMA Totals:	0.59	0.00	0.59	6.33%	0.18	0.04	0.00	0.00
Unit No. 01 Wadsworth Canal LB	Overall Unit Rating	Total Unit Miles						
ST0010	Α	4.66						
		Maintena	nce Deficiancy		Enforc	ement		& System scence
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	
Earthen Levee								
Animal Control	0.01		0.01	0.22%				
Erosion / Bank Caving	0.08		0.08	1.72%				
Supplemental								
USACE Erosion Survey	0.02		0.02	0.43%				
DWR UCIP Field Study					0.07	0.02		
Unit Totals:	0.11	0.00	0.11	2.36%	0.07	0.02	0.00	0.00
Unit No. 02 Wadsworth Canal RB	Overall Unit Rating	Total Unit Miles						
ST0010	M	4.66						
		Maintena	nce Deficiancy		Enforc	ement		& System scence
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	
Earthen Levee								
Animal Control	0.01		0.01	0.22%				
Slope Stability	0.01		0.01	0.22%				
Erosion / Bank Caving	0.43		0.43	9.23%				
Supplemental								
USACE Erosion Survey	0.03		0.03	0.64%				
DWR UCIP Field Study					0.11	0.02		
Unit Totals:	0.48	0.00	0.48	10.30%	0.11	0.02	0.00	0.00

# **LMA District Cover Sheet**

### Fall 2013 Levee Inspection Results

# **Sutter Maintenance Yard Wadsworth Canal**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)							
* Overall LMA Rating (Fall Only)			A								
** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.											
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.  FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.											
Comments											

### **Unit Cover Sheet**

### Fall 2013 Levee Inspection Results

### **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles
Unit No. 01 Wadsworth Canal	Left	4.66

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	04/09/2013 - 04/09/2013		10/23/2013 - 10/23/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	10/23/2013 10/23/2013	Bob Duffey

								10/23/2013	Dulle	У
Lev Star	rt End	Category	Item	Location	Rating	Action/Comment		GPS Latitude/I	_ongitude	Issue No. Photo
1		Earthen Levee	Operations & Maintenance Manuals	ws	A Ma			0	0	10
2		Earthen Levee	Emergency Supplies & Equipment	WS	A Ma			DWR ID: DWR_ST001	0	11
3		Earthen Levee	Flood Preparedness & Training	WS	A Ma			O O DWR ID: DWR_ST001	0	12
4 0.0	0.00	Supplementa	I DWR UCIP Field Study	WS		Inspector Comments: FS_ID:16729 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2013 Unknown permit for wo FIELD_STRUCT_DESC: FS Date: 8/1/2013		39.153000 ° 3 121.734146 ° -12	9.153000 ° 1.734146 °	97
5 0.0	02 0.02	Supplementa	DWR UCIP Field Study	WS		Inspector Comments: FS_ID:6740 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to determine disposition of possible. FIELD_STRUCT_DESC: 3-1/2-inch steel gas line the levee, 3.0 feet below the crown. Bank rock revett (Permit No. 5296 - Atlantic Oil CO. 1966). FS Date: 10/9/2012 2:33:00 PM	pipe, rough	39.113670 ° 3 121.768310 ° -12	1.768310°	
6 0.0	0.02	Supplementa	DWR UCIP Field Study	WS		Inspector Comments: FS_ID:13323 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to determine disposition of procontact pipe owner if possible.5/16/2013 Same as inspection. FIELD_STRUCT_DESC: 3-1/2-inch steel gas line the levee, 3.0 feet below the crown. Bank rock revett (Permit No. 5296 - Atlantic Oil CO. 1966). FS Date: 5/16/2013 12:49:52 PM	oipe, ast rough	39.113670° 3 121.768310°-12	9.113670 ° 1.768310 °	99
								DWR ID: DWR_ST001	0_01_f _ 2013_9	99

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma: Mainter

Inspector

#### Flood Control Project Maintenance Levee Inspections

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway

Bank Unit Miles

Inspection

Į.				vva	lerway			Dalik	Offic Milles	Start/End	mspec	lUi
				Unit No. 01 W	/adsw	ort	th Canal	Left	4.66	10/23/2013 10/23/2013	Bob Duffe	
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment			GPS Latitude/L	ongitude End	Issue No. Photo
7	1.20	1.20	Supplemental	DWR UCIP Field Study	WS M	'n	Inspector Comments: FS_ID:6761 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pump on Pier and Apparently abandoned-should be aband FIELD_STRUCT_DESC: 18-inch steel ir through the levee, 3.7 feet below the cro breaker on the waterward slope. Pump on on steel structure. (App. 1605 - Schnable the waterward toe. Anchor in waterward Schnable). FS Date: 10/9/2012 11:57:00 AM	oned pro rigation p wn. Siph on channo e) Service	nes cut. perly. oipe on el bank e pole at	39.127566 ° 39.121.755282 ° -12		100 Y
8	1.20	1.20	Supplemental	DWR UCIP Field Study	WS M	'n	Inspector Comments: FS_ID:6760 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pump on Pier and Apparently abandoned-should be aband FIELD_STRUCT_DESC: 18-inch steel ir through the levee, 3.7 feet below the cro breaker on the waterward slope. Pump of on steel structure. (App. 1605 - Schnable) the waterward toe. Anchor in waterward Schnable). FS Date: 10/9/2012 11:57:48 AM	oned pro rigation p wn. Siph on channe e) Service	s cut. perly. pipe on el bank e pole at	39.127566 ° 39.121.755282 ° -12	1.755282°	
9	1.20	1.20	Supplemental	DWR UCIP Field Study	WS M	'n	Inspector Comments: FS_ID:13324 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pump on Pier and Apparently abandoned-should be aband properly.5/16/2013 Same as last inspec FIELD_STRUCT_DESC: 18-inch steel ir through the levee, 3.7 feet below the cro breaker on the waterward slope. Pump of on steel structure. (App. 1605 - Schnable) the waterward toe. Anchor in waterward Schnable). FS Date: 5/16/2013 12:50:51 PM	oned ction. rigation p wn. Siph on channo e) Service	nes cut. Dipe on el bank e pole at		9.127566 ° 1.755282 °	102
10	1.74	1.74	Supplemental	USACE Erosion Survey	WS M	la	Inspector Comments: 2011 - Whole ban unravel, with failure from poor soils. 201 the extended inventory, last inspected 20 ID: WAD_2-1_L]	12: Site is	part of		9.133887°	6
11	1.85	1.85	Earthen Levee	Erosion / Bank Caving	WS N		E1 : Note and monitor erosion site.					Υ

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Mainter

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

				Wa	terway		Unit Miles	Inspection Start/End	Inspect	or	
				Unit No. 01 W	/adswo	rth Canal	Left	4.66	10/23/2013 10/23/2013	Bob Duffey	,
LMR No.	Levee	Mile End	Category	Item	Rating ** + Location *	Action/Comment			GPS Latitude/L	Jongitude	No. Photo
12	1.85	1.85	Earthen Levee	Animal Control	WS M Ma	A3 : No rodents visible, but rodent burro backfill and compact or grout burrows.	ws visible		39.135110 ° 3 -121.748229 ° -12 DWR ID: DWR_ST001	1.748229°	106 Y
13	1.85	1.85	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:6747 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe abandoned. Pip plugged. Pipe should be removed or ab properly. Extensive animal burrowing or alignment. FIELD_STRUCT_DESC: 14-inch steel in through the levee, 5.7 feet below the cro breaker on landward side. Vertical pump side. Meter pole on berm. Originally in C asbuilt available. FS Date: 10/9/2012 11:25:35 AM	andoned ccuring all rrigation pown. Sipho on water	nd not ong pipe oipe on rward	·121.748196 ° -12		Y
14	1.85	1.85	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:13329 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe abandoned. Pip plugged. Pipe should be removed or ab properly. Extensive animal burrowing or alignment.5/16/2013 Same as last insp Beckley is looking into finding pipe owne abandon pipe. FIELD_STRUCT_DESC: 14-inch steel in through the levee, 5.7 feet below the cro breaker on landward side. Vertical pump side. Meter pole on berm. Originally in 0 asbuilt available. FS Date: 5/16/2013 12:56:42 PM	andoned couring all ection. Ser to proper rigation pown. Sipholo on water	nd not ong pipe teve erly oipe on rward	DWR ID: DWR_ST001 39.135091 ° 3 .121.748196 ° -12	9.135091 °	
15	2.40	2.40	Earthen Levee	Erosion / Bank Caving	WS M	E2 : Schedule repair of erosion site prior inspection.	r to the ne		39.141697 ° 3 -121.742819 ° -12	9.141697°	14 Y
16	2.43	2.43		USACE Erosion Survey	WS M Ma	Inspection:  Inspector Comments: 2010 - Over steep some slumping, reach-wide problem. 20 wide problem. 2012: Site is part of the e last inspected 2011. [2012 Site ID: WAD	011 - Still xtended i	ees, a reach-	DWR ID: DWR_ST001	0_01_s _ 2012_14 9.142235 °	
17	2.76	2.76	Earthen Levee	Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site.		-			1 Y
18	3.31	3.31	Earthen Levee	Erosion / Bank Caving	WS C Ma	E2 : Schedule repair of erosion site prior inspection.	r to the ne		39.152875 ° 3 -121.734320 ° -12 DWR ID: DWR_ST001		13

* Location
LS : Land Side
WS : Water Side
CR : Crown

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma: Mainter

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#### Flood Control Project Maintenance Levee Inspections

## **Levee Inspection Report By Mile - Fall 2013**

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	10/23/2013 10/23/2013	Bob Duffey

								10/23/2013	Dune	ŧу	
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment		GPS Latitud	e/Longitude End	Issue No. Photo
19	3.32	3.32	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:16730 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2013 Unknown prield_STRUCT_DESC: FS Date: 8/1/2013 12:01:43 PM	permit for	39.153000 ° -121.734146 ° -		105
20	3.56	3.59	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.		39.156225 ° -121.732930 ° -	39.156639 ° 121.732755 °	3 Y
21	3.68	3.68	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.		39.157861 ° -121.732238 ° -		4 Y 4
22	4.27	4.27	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.		39.165845 ° -121.728877 ° - DWR ID: DWR_ST		

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	10/23/2013 10/23/2013	Bob Duffey

Levee Mile Report Line	7		
Start Levee Mile	1.20		
End Levee Mile	1.20		
Location	Water Side		
Category	Supplemental		
Item	DWR UCIP Field Study		
Power pole with cut powerlines, pump missing from steel pier.			

UCIP\_2932.jpg

Levee Mile Report Line	11
Start Levee Mile	1.85
End Levee Mile	1.85
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along both sides of the abandoned pump.

rduffey\_f\_20131104\_118.JPG

Levee Mile Report Line	12
Start Levee Mile	1.85
End Levee Mile	1.85
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes under the irrigation pipe.

rduffey\_f\_20131104\_119.JPG







M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monite : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	10/23/2013 10/23/2013	Bob Duffey

Levee Mile Report Line	13
Start Levee Mile	1.85
End Levee Mile	1.85
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
Pump missing from steel	pier on WS toe.

UCIP\_2925.jpg

Levee Mile Report Line	15
Start Levee Mile	2.40
End Levee Mile	2.40
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the fences.

rduffey\_f\_20130919\_844.jpg

Levee Mile Report Line	17	
Start Levee Mile	2.76	
End Levee Mile	2.76	
Location	Water Side	
Category	Earthen Levee	
Item	Erosion / Bank Caving	
View of erosion along W/S toe.		

rduffey\_f\_20130919\_840.jpg







+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	10/23/2013 10/23/2013	Bob Duffey

Levee Mile Report Line	20		
Start Levee Mile	3.56		
End Levee Mile	3.59		
Location	Water Side		
Category	Earthen Levee		
Item	Erosion / Bank Caving		
View of the erosion along the waterside toe of the levee.			
rduffey_f_20130919_841.jpg			

Levee Mile Report Line	21		
Start Levee Mile	3.68		
End Levee Mile	3.68		
Location	Water Side		
Category	Earthen Levee		
Item	Erosion / Bank Caving		
View of the erosion along the waterside toe of the levee.			

rduffey\_f\_20130919\_842.jpg





### **Unit Cover Sheet**

### Fall 2013 Levee Inspection Results

### **Sutter Maintenance Yard Wadsworth Canal**

Waterway		Unit Miles
Unit No. 02 Wadsworth Canal	Right	4.66

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	03/21/2013 - 03/21/2013		10/23/2013 - 10/23/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	10/23/2013 10/23/2013	Bob Duffey

Start End Category Item ** Start End Category It					OTILL INO. UZ VV	aus	woi	ui Canai	Night	4.00	10/23/2013	Duffe	·y
1 0.02 0.02 Supplemental DWR UCIP Field Study  LS M Inspector Comments: FS_ID:6822 EP_No: 5296 EP_No: 5296 EP_No: 5296 EP_No: 6296 EP_No:	LMR No			Category	Item	Location	Rating	Action/Comment					Issue No. Photo
Field Study  Field				Supplemental			М	EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Unable to locate any si owner to determine disposition of pipeline FIELD_STRUCT_DESC: 3-1/2-inch steel levee, 30-inches below crown. (App. 5296 Co.).	e. gas line	Call through	39.114372 ° ; -121.769263 ° -12	21.769263°	
Levee  Ma grout burrows.  -121.760723 ° -121.760723 °  DWR ID: DWR_ST0010_02_f_2012_10  4 1.15 1.15 Supplemental DWR UCIP Field Study  Field Study  Field Study  By Inspector Comments: FS_ID:6821  En EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears improperly abandoned. No motor present, electrical equipment is stripped. Heavy rodent activity along pipe WS and LS. Pipe needs to be removed or properly abandoned. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 4.8-feet below the crown. Pump mounted on concrete pad near canal bank. Service pole on berm. 30-inch diameter concrete standpipe at	2	0.02	0.02	Supplemental		LS		EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Unable to locate any si owner to determine disposition of pipeline Same as last inspection. FIELD_STRUCT_DESC: 3-1/2-inch steel levee, 30-inches below crown. (App. 5296 Co.).	e.5/16/20 gas line	Call 13 through	-121.769263 ° -12	21.769263°	
Field Study  En EP_NO: N/A -121.756485 ° -12	3	0.78	0.78		Animal Control	LS			l compact		-121.760723 ° -12	21.760723°	
FS Date: 10/10/2012 8:27:19 AM  DWR ID: DWR_ST0010_02 f _ 2013_18	4	1.15	1.15	Supplemental		LS		EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears improper No motor present, electrical equipment is rodent activity along pipe WS and LS. Pi removed or properly abandoned. FIELD_STRUCT_DESC: 10-inch steel irr through the levee, 4.8-feet below the crow mounted on concrete pad near canal ban on berm. 30-inch diameter concrete stan landward toe. Originally in O+M manual,	stripped. pe needs igation pi wn. Pump k. Service dpipe at	oned. Heavy to be pe	-121.756485 ° -12	21.756485°	

\* Location LS: Land Side WS: Water Side CR: Crown \*\* Rating

A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	10/23/2013 10/23/2013	Bob Duffey

Field Study  En EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears improperly abandoned. No motor present, electrical equipment is stripped. Heavy rodent activity along pipe WS and LS. Pipe needs to be removed or properly abandoned.5/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 4.8-feet below the crown. Pump mounted on concrete pad near canal bank. Service pole on berm. 30-inch diameter concrete standpipe at landward toe. Originally in O+M manual, asbuilt available. FS Date: 5/16/2013 1:18:14 PM  6 1.17 1.17 Earthen Levee  Slope Stability LS M M3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.  9 1.72 1.72 Earthen Levee  Animal Control WSA/W A3: No rodents visible, but rodent burrows visible; need to lackfill and compact or grout burrows.  WSA/W A3: No rodents visible, but rodent burrows visible; need to lackfill and compact or grout burrows.  9 1.74 1.74 Supplemental USACE Erosion Survey  MS M Inspector Comments: 2011 - Whole bank is starting to unravel, with failure from poor soils. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site iD: WAD_2-1_R]  9 1.77 1.77 Supplemental DWR UCIP Field Study  Field Study  M Inspector Comments: FS_ID:6801  En P_NO: 1096  Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy rodent activity on LS slope along pipe alignment. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 4.4-feet below the crown. Pump mounted on a steel structure on the bank. Siphon breaker on the landward slope. unable to locate 48-inch concrete standpipe on the landward berm that was listed in permit.					OTIIL 140. 02 V	aus	WO	ui Canai	ragin	1.00	10/23/2013	Duffe	У
Field Study  Field	LMR No.			Category	Item	Location	Rating	Action/Comment					Issue No. Photo
Slope Stability Levee Slope Stability Ma S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.  Animal Control Levee Animal Control Ma Anima	5	1.15	1.15	Supplemental		WS		EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears improperl No motor present, electrical equipment is rodent activity along pipe WS and LS. Pip removed or properly abandoned.5/16/201 last inspection. FIELD_STRUCT_DESC: 10-inch steel irri through the levee, 4.8-feet below the crow mounted on concrete pad near canal band on berm. 30-inch diameter concrete stand landward toe. Originally in O+M manual,	stripped. pe needs 3 Same igation pip vn. Pump k. Servic dpipe at	oned. Heavy to be as oe	-121.756485 ° -′		19 Y
Levee  Ma  backfill and compact or grout burrows.  -121.750250 ° -121.75025  DWR ID: DWR_ST0010_02_f_2  8 1.74 1.74 Supplemental USACE Erosion Survey  Ma  Inspector Comments: 2011 - Whole bank is starting to unravel, with failure from poor soils. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: WAD_2-1_R]  9 1.77 1.77 Supplemental DWR UCIP Field Study  Field Study  Field Study  MS  Inspector Comments: FS_ID:6801 En  En  En  En  En  En  Crossing Status: Found UCIP Comments: Heavy rodent activity on LS slope along pipe alignment. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 4.4-feet below the crown. Pump mounted on a steel structure on the bank. Siphon breaker on the landward slope. unable to locate 48-inch concrete standpipe on the landward berm that was listed in permit.	6	1.17	1.17		Slope Stability	LS			vehicle tra		39.127648 ° -121.756345 ° -	39.127648 ° 121.756345 °	3 Y
Survey  Ma  unravel, with failure from poor soils. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: WAD_2-1_R]  9 1.77 1.77 Supplemental DWR UCIP Field Study  WS M Inspector Comments: FS_ID:6801 En EP_NO: 1096 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy rodent activity on LS slope along pipe alignment. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 4.4-feet below the crown. Pump mounted on a steel structure on the bank. Siphon breaker on the landward slope. unable to locate 48-inch concrete standpipe on the landward berm that was listed in permit.	7	1.72	1.72		Animal Control	WS			s visible;		-121.750250 ° -1		15 Y
9 1.77 1.77 Supplemental DWR UCIP Field Study  WS M Inspector Comments: FS_ID:6801  EP_NO: 1096 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy rodent activity on LS slope along pipe alignment. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 4.4-feet below the crown. Pump mounted on a steel structure on the bank. Siphon breaker on the landward slope. unable to locate 48-inch concrete standpipe on the landward berm that was listed in permit.	8	1.74	1.74	Supplemental		WS		unravel, with failure from poor soils. 2012 the extended inventory, last inspected 20	2: Site is p	part of	-121.743260°-′	39.134064 °  21.749781 °	12
(Permit No. 1096 - Brown). Asbuilt available. FS Date: 10/10/2012 2:36:22 PM  DWR ID: DWR_ST0010_02_f_2	9	1.77	1.77	Supplemental		ws		EP_NO: 1096 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy rodent activity or pipe alignment. FIELD_STRUCT_DESC: 16-inch steel irri through the levee, 4.4-feet below the crow mounted on a steel structure on the bank, on the landward slope. unable to locate 4 standpipe on the landward berm that was (Permit No. 1096 - Brown). Asbuilt availa	igation pi vn. Pump . Siphon 48-inch c listed in	e along be breaker oncrete	39.134497° -121.749716° -′		20

Rank Unit Miles Inspection Inspector

#### **Flood Control Project Maintenance Levee Inspections**

## Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

				Wa	iterwa	ay		Bank	Unit Miles	Inspection Start/End	Insped	ctor
				Unit No. 02 W	/ads	woı	rth Canal	Right	4.66	10/23/2013 10/23/2013		
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment			GPS Latitud	e/Longitude End	Issue No.
10	1.77		Supplemental	DWR UCIP Field Study	WS		Inspector Comments: FS_ID:13342 EP_NO: 1096 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy rodent activity opipe alignment.5/16/2013 Same as last FIELD_STRUCT_DESC: 16-inch steel in through the levee, 4.4-feet below the cromounted on a steel structure on the band on the landward slope. unable to locate standpipe on the landward berm that wa (Permit No. 1096 - Brown). Asbuilt avail FS Date: 5/16/2013 1:20:47 PM	inspection pown. Punk. Sipho 48-inch is listed in	ope along on. oipe np n breaker concrete	39.134497 ° .121.749716 ° .	39.134497 ° .121.749716 °	21 Y
11	1.77	1.77	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrou backfill and compact or grout burrows.	ws visible		39.134490 ° ·121.749716 ° ·	39.134490 ° -121.749716 °	11 Y
12	1.77	1.77	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6802 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy rodent activity alignment of pipe. No pump on structure be abandoned. Should be abandoned p FIELD_STRUCT_DESC: 16-inch steel in through the levee, 4.4-feet below the cromounted on a timber structure on the babreaker on the landward slope. Unablest concrete standpipe on the landward berr in O+M manual. Asbuilt available. FS Date: 10/10/2012 2:44:20 PM	e and it a roperly. rigation p wn. Pun nk. Siph to locate	ppears to pipe np on 48-inch	39.134499 ° · · · · · · · · · · · · · · · · · ·		
13	1.77	1.77	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:13343 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy rodent activity a alignment of pipe. No pump on structure be abandoned. Should be abandoned properly.5/16/2013 Same as last inspec FIELD_STRUCT_DESC: 16-inch steel in through the levee, 4.4-feet below the cro mounted on a timber structure on the ba breaker on the landward slope. Unable to concrete standpipe on the landward berr in O+M manual. Asbuilt available. FS Date: 5/16/2013 1:21:18 PM	e and it a ction. rigation p wn. Pun nk. Siph to locate	ppears to pipe np on 48-inch	39.134499 ° - 121.749712 ° -	39.134499 ° -121.749712 °	23
14	1.86	1.86	Earthen Levee	Animal Control	LS	C Ma	A1 : Exterminate rodents and backfill and grout burrows.	d compa		39.135535 ° -121.748678 ° - DWR ID: DWR_S1	39.135535 ° -121.748678 °	8

Location

LS: Land Side

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

	Waterway							Bank	Unit Miles	Inspection Start/End	Inspec	tor
				Unit No. 02 W	ads	woı	th Canal	Right	4.66	10/23/2013 10/23/2013	Bob Duffe	
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment			GPS Latitude/L	ongitude End	Issue No. Photo
15	2.44	2.44	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2010 - Over steep some slumping, reach-wide problem. 20 wide problem. 2012: Site is part of the e last inspected 2011. [2012 Site ID: WAL	011 - Still xtended i	a reach-	39.153150 ° 39.142254 ° 13 121.734611 ° -121.742847 °		
16	3.30	3.30	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.		-	39.152903 ° 39.152906 ° -12 -121.734906 ° -12 DWR ID: DWR_ST001	1.734906°	14 Y 14
17	3.33	3.33	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:16731 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2013 Unkown pr FIELD_STRUCT_DESC: FS Date: 8/1/2013	ermit for v		·121.734988 ° -12		
										DWR ID: DWR_ST001	0_02_f _ 2013_2	24
18	3.35	3.35	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6783 EP_NO: 10473 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe shows signs of h in channel. Good candidate for video in FIELD_STRUCT_DESC: 16-inch steel, through the levee, 2.7-feet below the cro pump in the channel with a service pole Discharges into channel at the landward (App. 5622 & 10473). Originally include As-built available. FS Date: 10/10/2012 1:06:47 PM	spection. irrigation   own. Vert on the be I toe of the	at outlet pipe ical erm. e levee.	39.153491° 3: 121.734636° -12		25
										DWR ID: DWR_ST001	0_02_f _ 2013_2	25
19	3.35	3.35	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:13347 EP_NO: 10473 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe shows signs of h in channel. Good candidate for video inspection.5/16/2013 Same as last insp FIELD_STRUCT_DESC: 16-inch steel, through the levee, 2.7-feet below the cro pump in the channel with a service pole Discharges into channel at the landward (App. 5622 & 10473). Originally include	ection. irrigation pown. Vert on the beat toe of the	t at outlet pipe ical erm. e levee.	39.153491° 3: -121.734636° -12		26 Y

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

As-built available.

FS Date: 5/16/2013 1:25:58 PM

+ Issue Type
Ma : Mainter

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement DWR ID: DWR\_ST0010\_02\_f \_ 2013\_26

Inspector

#### Flood Control Project Maintenance Levee Inspections

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway

Bank Unit Miles

Inspection

			vva	terway		Bank	Unit Miles	Start/End	Inspec	tor
			Unit No. 02 W	/adswor	th Canal	Right	4.66	10/23/2013 10/23/2013	Bob Duffe	
Levee	e Mile End	Category	Item	Rating  ** +  Location  **	Action/Comment			GPS Latitude/L	ongitude End	Issue No. Photo
20 3.35	3.35	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:13349 EP_NO: 5622 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/16/2013 Signs of le stand pipe on LS toe-road. Area about 2 muddy and there has not been any rain to FIELD_STRUCT_DESC: 15-inch steel in through the levee, 2.7-feet below the cro pumps in the channel (likely sleeved thro steel pipe). Power pole on the WS slope 36-inch concrete standpipe at the landwork levee. 16-inch CMP riser on LS shoulder 5622 & 10473). Originally included in Orb uilt available. FS Date: 5/16/2013 1:38:39 PM	20ft. long for a few rrigation own. Veri ough a 22 c. Discha ard toe o	concrete is weeks. pipe tical 2-inch urges into f the it No.	39.153530 ° 39.121.734620 ° -121		27 Y
21 3.35	3.35	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:13348 EP_NO: 5622 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/16/2013 Signs of le stand pipe on LS toe-road. Area about 2 muddy and there has not been any rain in FIELD_STRUCT_DESC: 15-inch steel i through the levee, 2.7-feet below the cro pumps in the channel (likely sleeved thro steel pipe). Power pole on the WS slope 36-inch concrete standpipe at the landwork levee. 16-inch CMP riser on LS shoulder 5622 & 10473). Originally included in Orbuilt available. FS Date: 5/16/2013 1:27:01 PM	20ft. long for a few rrigation own. Ver ough a 22 . Discha ard toe o r. (Permi	concrete is weeks. pipe tical 2-inch arges into f the it No.		0.153530 ° .734620 °	28
22 3.46	3.46	Earthen Levee	Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site.		-	39.155057 ° 39 121.733985 ° -121 DWR ID: DWR_ST0010		4 Y
23 3.59	3.99	Earthen Levee	Erosion / Bank Caving	WS M	E1 : Note and monitor erosion site.			39.156753 ° 39 121.733267 ° -121 DWR ID: DWR_ST0010		
<sup>24</sup> 4.41	4.41	Supplemental	USACE Erosion Survey	WS M	Inspector Comments: 2011 - Small erosi Site is part of the extended inventory, las [2012 Site ID: WAD_4-3_R]			39.168937 ° 39 121.727905 ° -121 DWR ID:	0.168659 ° .728016 °	16
<sup>25</sup> 4.49	4.49	Earthen Levee	Erosion / Bank Caving	WS M	E1 : Note and monitor erosion site.		-	39.168848 ° 39 121.728130 ° -121 DWR ID: DWR_ST0010		
<sup>26</sup> 4.55	4.55	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E1 : Note and monitor erosion site.		-	39.169670 ° 39 121.727787 ° -121 DWR ID: DWR_ST0010		7 Y

\* Location LS: Land Side WS: Water Side CR: Crown \*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Mainter

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	10/23/2013 10/23/2013	Bob Duffey

Levee Mile Report Line	5
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
Pipe and pump facilities	on WS slope.

UCIP\_7270.jpg

Levee Mile Report Line	6								
Start Levee Mile	1.17								
End Levee Mile	1.17								
Location	Land Side								
Category	Earthen Levee								
Item	Slope Stability								
View of vehicle eresion o	long L/C clone								

View of vehicle erosion along L/S slope.

rduffey\_f\_20130919\_067.jpg

Levee Mile Report Line	7										
Start Levee Mile	1.72										
End Levee Mile	1.72										
Location	Water Side										
Category	Earthen Levee										
Item	Animal Control										
View of the grouted rodent holes.											

rduffey\_f\_20130919\_078.JPG







\* Location LS: Land Side WS: Water Side CR: Crown \*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	10/23/2013 10/23/2013	Bob Duffey

Levee Mile Report Line	10	
Start Levee Mile	1.77	
End Levee Mile	1.77	
Location	Land Side	
Category	Supplemental	
Item	DWR UCIP Field Study	
Pump on steel platform with walkway on WS berm.		
UCIP_7277.jpg		

Levee Mile Report Line	11
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Animal Control
USACE 2011 Photo #1	

rduffey\_f\_20130919\_074.jpg

Levee Mile Report Line	11
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Animal Control
USACE 2011 Photo #2	







Location LS: Land Side WS : Water Side CR : Crown

rduffey\_f\_20130919\_075.jpg

Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal		4.66	10/23/2013 10/23/2013	Bob Duffey

Levee Mile Report Line	11
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of the rodent holes	above the irrigation pipe.

0 11

rduffey\_f\_20131104\_113.JPG

Levee Mile Report Line	16
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey\_f\_20130919\_077.jpg

Levee Mile Report Line	19
Start Levee Mile	3.35
End Levee Mile	3.35
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Pump on steel pier at WS toe.

UCIP\_7283.jpg







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal		4.66	10/23/2013 10/23/2013	Bob Duffey

20
3.35
3.35
Water Side
Supplemental
DWR UCIP Field Study
on WS

Levee Mile Report Line	22
Start Levee Mile	3.46
End Levee Mile	3.46
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion at the waterside toe of the levee.

		rduffey_	f_20130919	_068.jpg
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UCIP\_7294.jpg

23
3.59
3.99
Water Side
Earthen Levee
Erosion / Bank Caving
g the waterside toe.







Location LS: Land Side WS : Water Side CR : Crown

rduffey\_f\_20130919\_069.jpg

Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	10/23/2013 10/23/2013	Bob Duffey

Levee Mile Report Line	25			
Start Levee Mile	4.49			
End Levee Mile	4.49			
Location	Water Side			
Category	Earthen Levee			
Item	Erosion / Bank Caving			
View of erosion along the W/S toe.				

rduffey\_f\_20130919\_070.jpg

Levee Mile Report Line	26		
Start Levee Mile	4.55		
End Levee Mile	4.55		
Location	Water Side		
Category	Earthen Levee		
Item	Erosion / Bank Caving		
View of the erosion along the W/S toe.			

· ·

rduffey\_f\_20130919\_071.jpg



